

Applied Physics Letters

A weekly journal featuring concise, up-to-date reports on significant new findings in applied physics.

[[APL Home](#)] [[All Online Issues: Browse | Search](#)] [[Article Purchases](#)]
[[SPIN Database: Browse | Search](#)] [[Forthcoming Abstracts](#)] [[HELP](#)] [[EXIT](#)]

[online advertising info](#)

Article Collection:

[View Collection](#) | [Help](#)

(Click on the ☐ to add an article.)

Model ALL Your PDE Problems with ONE Software Tool!



Show References

[[Previous](#) / [Next](#) Abstract | [Issue Table of Contents](#) | [Bottom of Page](#)]

Applied Physics Letters -- February 21, 1994 -- Volume 64, Issue 8, pp. 960-962

☐ **Full Text:** [[PDF \(417 kB\)](#) [GZipped PS](#)] [Order](#)

Improved performance of quantum well infrared photodetectors using random scattering optical coupling

G. Sarusi, B. F. Levine, S. J. Pearton, K. M. S. Bandara, and R. E. Leibenguth
AT&T Bell Laboratories, Murray Hill, New Jersey 07974

(Received 15 October 1993; accepted 1 December 1993)

We demonstrate that a random scattering reflector on top of a quantum well infrared photodetector increases the optical coupling (i.e., increases the infrared absorption, responsivity, and detectivity) by an order of magnitude compared with a one-dimensional grating or 45° angle of incidence geometry. Applied Physics Letters is copyrighted by The American Institute of Physics.

doi:10.1063/1.110973

PACS: 85.60.Gz [Additional Information](#)

☐ **Full Text:** [[PDF \(417 kB\)](#) [GZipped PS](#)] [Order](#)



The American Institute of Physics is a member of CrossRef.

[[Previous](#) / [Next](#) Abstract | [Issue Table of Contents](#) | [Top of Page](#)]

Show References

Article Collection: [View Collection](#) [Help](#) (Click on the ☐ to add an article.)

| |
|--|
| [APL Home] [All Online Issues: Browse Search] [SPIN Database: Browse Search] [HELP] [EXIT] |
|--|

**AMERICAN
INSTITUTE
OF PHYSICS** Published by the American Institute of Physics
Copyright © 2002 American Institute of Physics